



# Getting Your Feet Wet...

an introduction to noaa oceans and coasts





# Getting Your Feet Wet...

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# NOS: Long Story Short

## NOAA'S

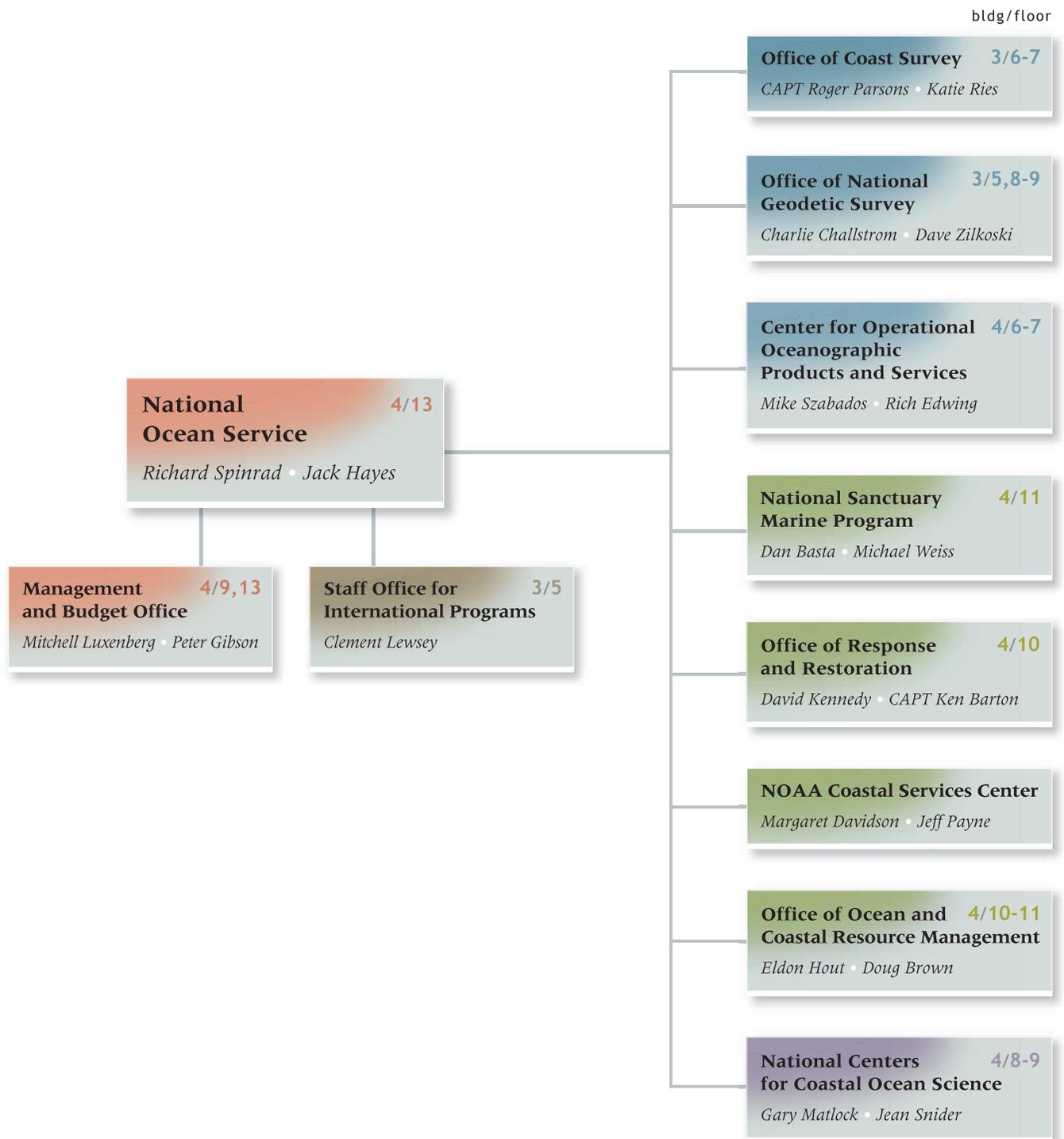
**NATIONAL OCEAN SERVICE (NOS)** is one of the nation's premier institutions in marine navigation, operational oceanography and geopositioning, marine resources management, and marine and coastal science. NOS provides many essential products, services and data for the nation. These include nautical charts, the National Spatial Reference System, and the National Water Level Observation Program. NOS manages major programs in 13 national marine sanctuaries and 26 national estuarine research reserves. Additionally, NOS is a major participant in immediate response to hazardous spill events, damage assessment, and restoration activities. NOS facilitates the nation's Coastal Zone Management Program, in which 34 coastal states participate, and it supports an aggressive training program for state coastal managers. Finally, NOS's science program assesses, monitors and predicts the consequences of natural and human-induced marine environmental perturbations.



NOS strives to help NOAA serve the nation as a global leader in integrated management of the ocean. NOS's eight program offices and two staff offices work to meet this challenge by coordinating agency activities across six priority themes—observations, modeling, coastal communities, technology, partnerships, and maintaining an expert workforce. Through this integrated approach, NOAA addresses ocean resource management issues and brings added insight, information, and tools to decision making.

With an FY2005 enacted budget of \$541.2 million, NOS's 1,100 federal employees and over 500 contractors serve multiple functions within NOS to sustainably manage the nation's use of its coastal and marine resources. Many of these employees—about 60 percent—are located at NOS headquarters in Silver Spring, Maryland. The rest are stationed at various field offices around the nation.

# NOS Organization



# NOS FY05 FTE and Enacted ORF Budget and FY06 ORF Budget (President's Request) by Program Office

	FY05 FTE Total HQ/Field	FY05 Enacted (\$M)	FY06 Request (\$M)
<b>Office of Coast Survey OCS</b>	<b>226</b> 170/56	<b>\$73.5</b>	<b>\$89.2</b>
<b>Office of National Geodetic Survey NGS</b>	<b>222</b> 167/55	<b>\$39.1</b>	<b>\$27.2</b>
<b>Center for Operational Oceanographic Products and Services CO-OPS</b>	<b>107</b> 75/32	<b>\$27.9</b>	<b>\$23.1</b>
<b>National Marine Sanctuary Program NMSP</b>	<b>118</b> 39/79	<b>\$60.2</b>	<b>\$35.7</b>
<b>Office of Response and Restoration OR&amp;R</b>	<b>119</b> 30/89	<b>\$66.3</b>	<b>\$50.9</b>
<b>NOAA Coastal Services Center CSC</b>	<b>69</b> 2/67	<b>\$58.0</b>	<b>\$22.5</b>
<b>Office of Ocean and Coastal Resource Management OCRM</b>	<b>63</b> 61/2	<b>\$101.4</b>	<b>\$97.8</b>
<b>National Centers for Coastal Ocean Science NCCOS</b>	<b>171</b> 61/110	<b>\$84.2</b>	<b>\$48.0</b>
<b>Miscellaneous Appropriations</b>		<b>\$30.6</b>	<b>\$0.0</b>
<b>TOTAL</b>	<b>1095</b> 605/490	<b>\$541.2</b>	<b>\$394.2</b>

*abbreviation:* ORF - Operations, Research, and Facilities

*footnotes:*

- 1) AA/M&B/IPO FY05 FTE - 115 including reserves
- 2) FY05 budget includes Congressional earmarks not requested in FY06 budget.

# NOS FY05 Enacted PAC Budget and FY06 PAC Budget (President's Request) by Program Office

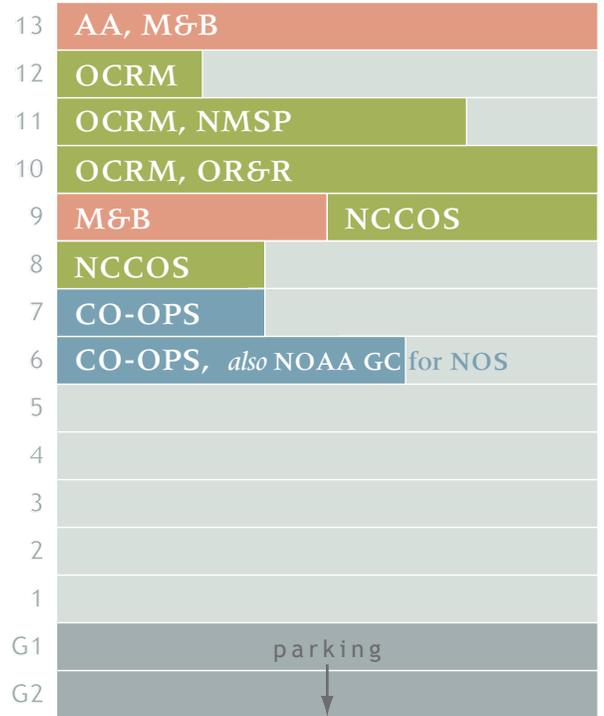
	FY05 Enacted (\$M)	FY06 Request (\$M)
National Marine Sanctuary Program NMSP	\$9.9	\$7.3
Office of Ocean and Coastal Resource Management OCRM	\$80.8	\$7.3
Coastal Services Center CSC	\$10.2	\$0.0
National Centers for Coastal Ocean Science NCCOS	\$6.9	\$0.0
Miscellaneous PAC	\$19.2	\$0.0
<b>TOTAL</b>	<b>\$127.0</b>	<b>\$14.6</b>

*abbreviation:* PAC - Procurement, Acquisitions, and Construction

# NOS Silver Spring Campus



SSMC3 - 1315



SSMC4 - 1305

East-West Highway, Silver Spring MD 20910

# Geographic Distribution of NOS Personnel



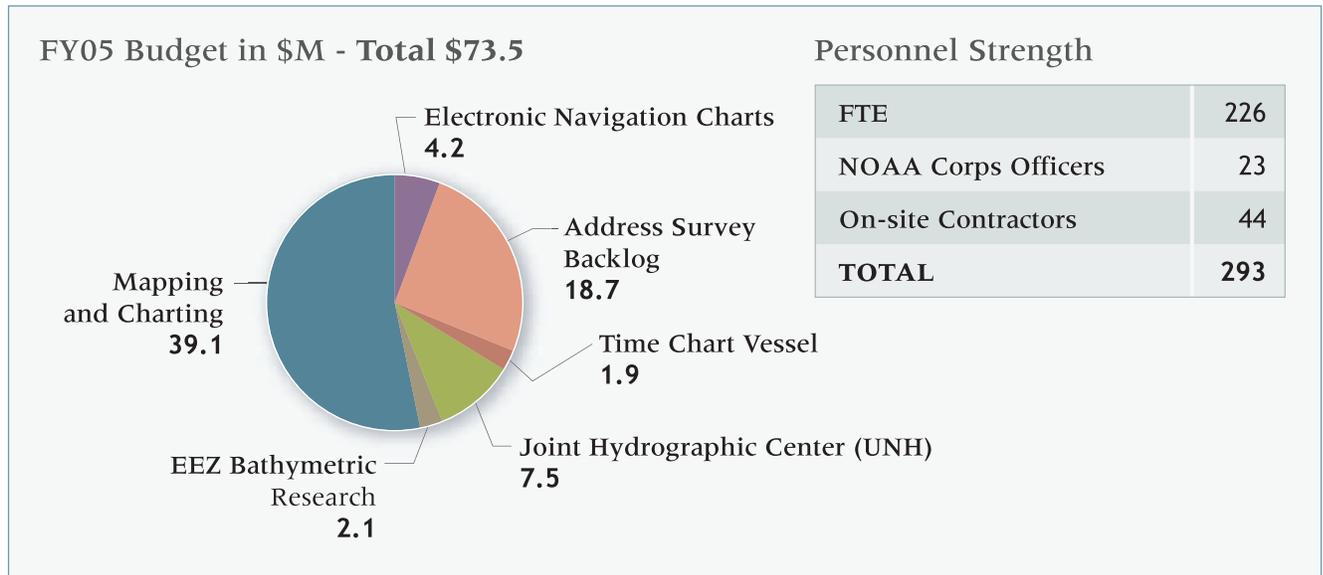
- >114 Employees
- 26-113
- 5-25
- 1-4

# Office of Coast Survey

CAPT Roger Parsons, Director

Katie Ries, Deputy Director

## Budget and Total Personnel Strength



## Organization

### Coast Survey Development Laboratory

Mary Erickson, Chief

### Marine Chart Division

CAPT Jim Gardner, Chief

### Hydrographic Surveys Division

Mike Gibson, Chief

### Navigation Services Division

CAPT Steve Barnum, Chief

## Office Responsibilities and Highlights

- **OCS generates products and services** to meet the needs of customers with their direct input. Ten OCS navigation managers are stationed regionally throughout the nation to interact with customers, determine their needs and resolve their problems.
- **OCS maintains 1,000 nautical charts in paper, raster and Print-on-Demand formats**, and is in the process of building a comparable suite of electronic navigational charts (ENC). Available online, users have downloaded more than 4.5 million ENCs since July, 2001.
- **OCS is employing and contracting experts, emerging technologies and new ships** to reduce the nation's hydrographic survey backlog by significant amounts.
- **OCS is working with NGS and CO-OPS** to implement the National Vertical Datum Transformation tool, which uses elevation data to create a consistent vertical datum accurately representing geographic and bathymetric data.
- **OCS's bathymetric survey data will be important** when the U.S. decides to submit a claim under the UN convention on the Law of the Sea for an extended continental shelf. NOAA will lead technical preparations for this claim when the U.S. accedes to the Convention.

# Office of Coast Survey

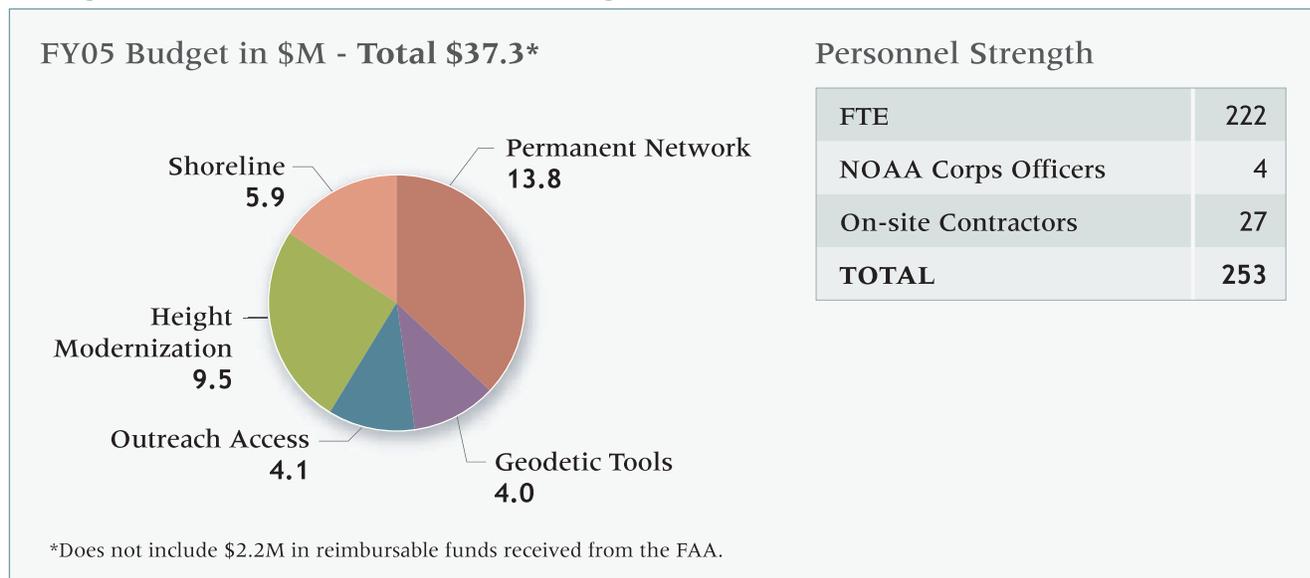


- Headquarters
- Hydrographic Branches
- Regional Navigation Managers

# Office of National Geodetic Survey

Charlie Challstrom, Director  
 Dave Zilkoski, Deputy Director

## Budget and Total Personnel Strength



## Organization

**Geodetic Services Division**  
 Gilbert Mitchell, Chief

**Spatial Reference System Division**  
 Richard Snay, Chief

**Remote Sensing Division**  
 Mike Aslaksen, Chief

**Observation and Analysis Division**  
 Libby Wade, Chief

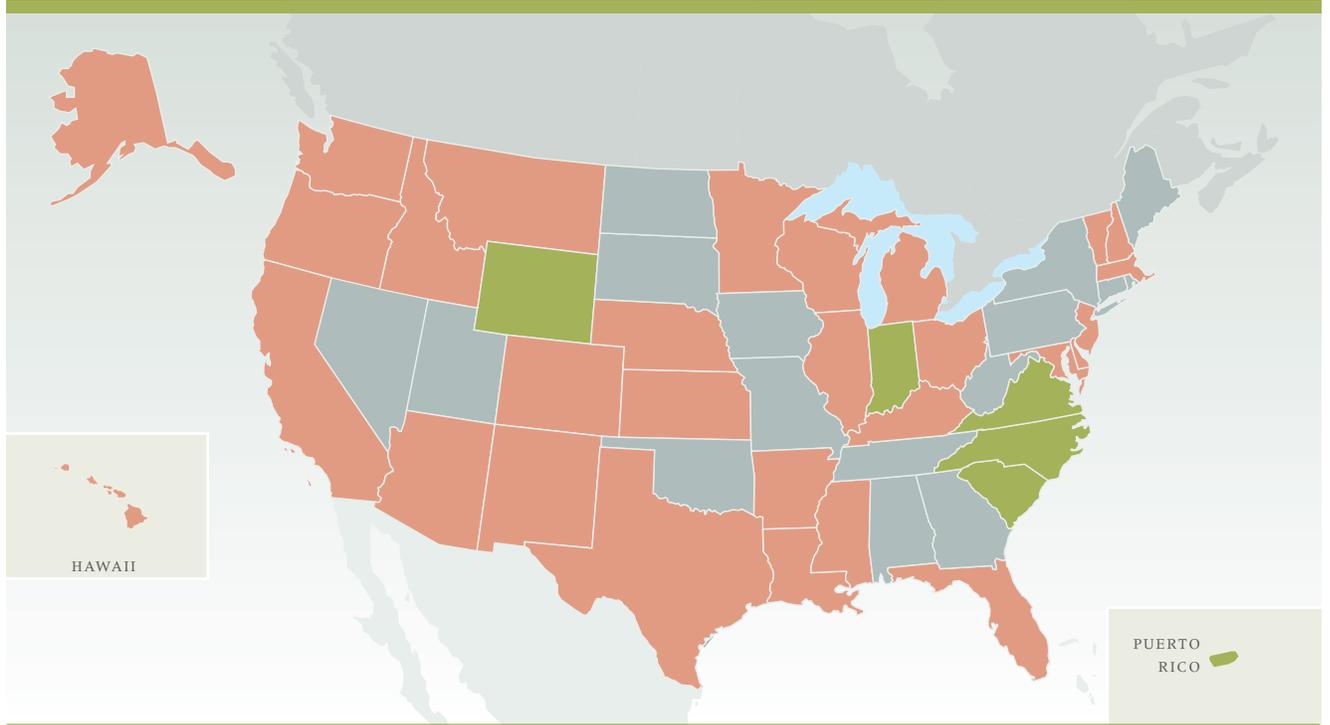
**Systems Development Division**  
 Charlie Schwarz, Chief

**Geosciences Research Division**  
 Gerry Mader, Chief

## Office Responsibilities and Highlights

- **NGS's Height Modernization initiative** enables use of the Global Positioning System (GPS) to efficiently establish accurate elevations for all types of positioning and navigational needs.
- **NGS's Online Positioning User Services (OPUS) and VDatum** expand public capabilities to use the latest positioning technologies.
- **NGS promotes partnerships** to improve the Continuously Operating Reference Station (CORS) network, height modernization, and the setting of commemorative monuments for the Lewis and Clark Bicentennial and the NOAA Heritage Trail.
- **NGS contracts with the private sector** for shoreline mapping, height modernization, and airport survey data acquisition.
- **NGS state advisors, user forums, and town meetings** provide outreach, education, and connection to the American people.
- **NGS participation in Federal Geographic Data Committee (FGDC) activities** includes the development of data content standards and access to geodetic and shoreline data, and making spatial data and metadata collected by federal agencies available to the public with online tools.
- **NGS is redirecting resources** by increasing emphasis on building the outside capacity of others to do accurate positioning.

# Office of National Geodetic Survey



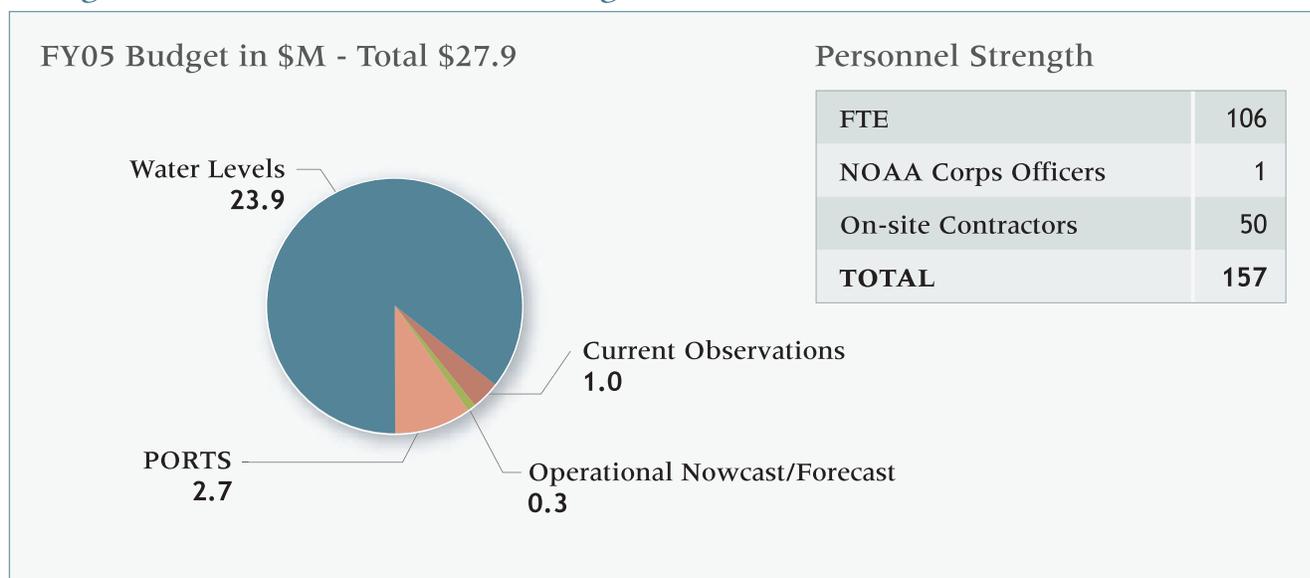
## State Advisors

- *Advisor*
- *State Representative*

# Center for Operational Oceanographic Products and Services

Mike Szabados, Director  
Rich Edwing, Deputy Director

## Budget and Total Personnel Strength



## Organization

### Requirements and Development Division

Thomas Mero, Chief

### Field Operations Division

Michael O'Hargan, Chief

### Oceanography Division

vacant

### Information Systems Division

Thomas Bethem, Chief

## Office Responsibilities and Highlights

- **Physical Oceanographic Real-Time Systems (PORTS®) are now operating** at 12 locations and support safe and efficient navigation at 34 U.S. seaports.
- **New Galveston Bay Forecasting System online** which provides mariners, port managers, and emergency response teams with present and future conditions of water levels, currents, temperature, and salinity.
- **CO-OPS launched the Storm Surge Quick Look**, a product that integrates NWS storm-tracking information with NOS water level storm surge and meteorological data from stations experiencing hurricane conditions. The Web-based *Quick Look* product is supported on a 24 hours a day, 7 days a week basis during hurricane events.
- **A new PORTS® navigation tool called Air Gap** measures the clearance between the water surface and bridges to help vessels, which are being built ever larger and taller, avoid dangerous collisions with bridges.
- **Tide information made available via cell phone** using a service developed by ekkosoft.us called Salt Water Tides. Salt Water Tides accesses data from CO-OPS computers and uses NOAA algorithms to generate tide prediction graphics for thousands of locations around the U.S. coast.

# Center for Operational Oceanographic Products and Services



## National Water Level Observation Network Stations - NWLON

- *Tide Component*
- *Great Lakes Component*

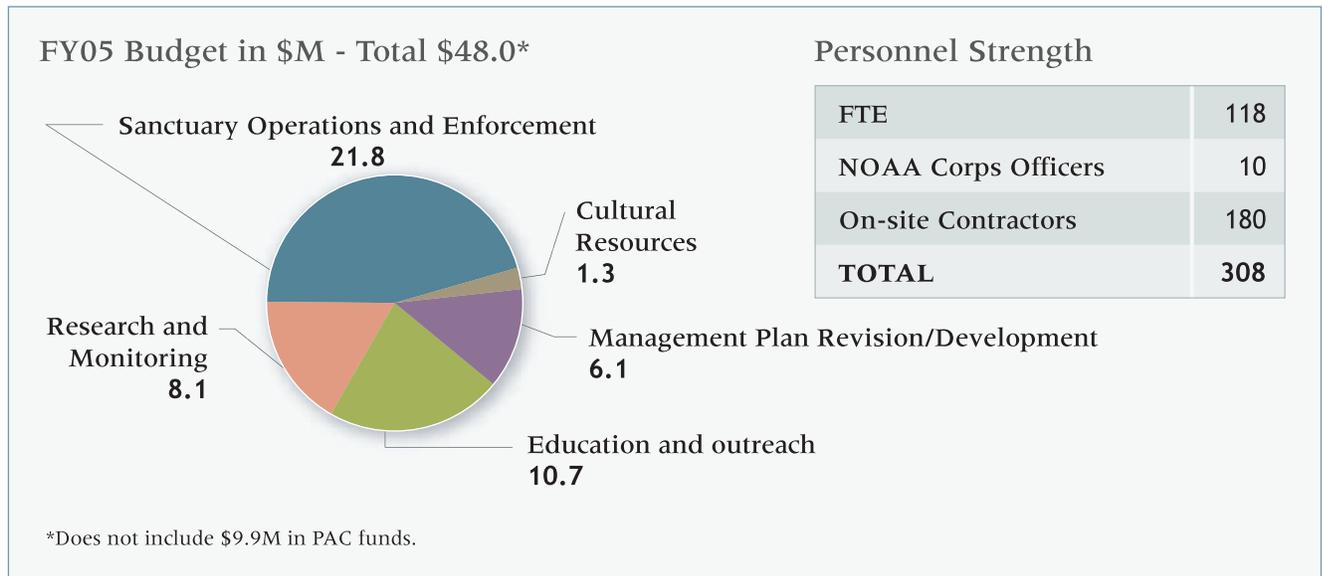
▲ **Physical Oceanographic Real-Time System - PORTS®**

# National Marine Sanctuary Program

Daniel J. Basta, Director

Michael Weiss, Deputy Director; CAPT Ted Lillestolen, Deputy Director for Vessels, Aircraft, Facilities, and Safety

## Budget and Total Personnel Strength



## Organization

### National Programs Branch

Charly Alexander, Chief

### Conservation, Policy and Planning Branch

Elizabeth Moore, Acting Chief

### Stewardship Development Branch

Matt Stout, Chief

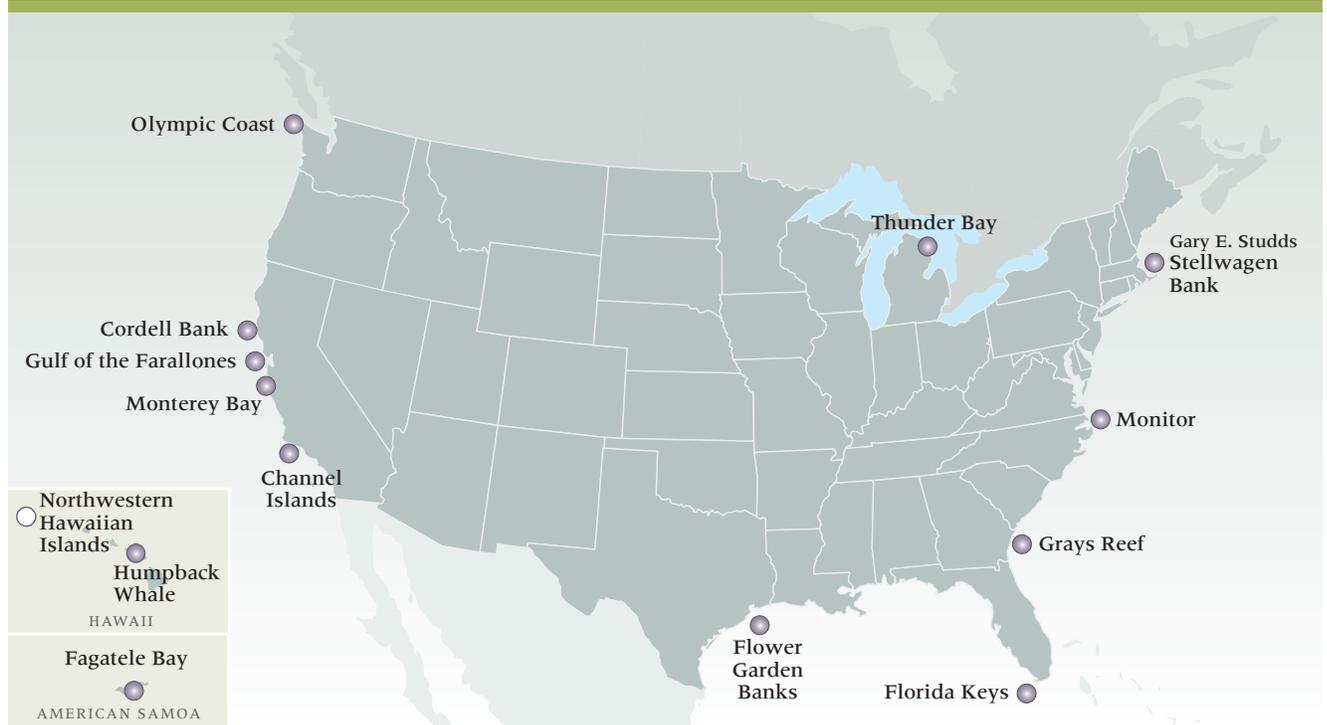
### Operations Branch

Maureen Warren, Chief of Staff

## Program Responsibilities and Highlights

- **Seven sanctuaries currently are revising their management plans**, which provide community-based strategies for addressing resource protection issues.
- **NMSP is in the process of designating a new sanctuary** in the ecologically rich and diverse Northwestern Hawaiian Islands.
- **NMSP is increasing its focus** on conservation of cultural resources—the turret of the *USS Monitor* was raised in summer 2002 and more shipwrecks within Thunder Bay were identified.
- **NMSP is considering establishing marine reserves** in California’s Channel Islands to complement the state’s recent marine reserves designation in the area.
- **NMSP is working to implement a system-wide monitoring plan** that would allow the sanctuaries to become key areas for monitoring the health of the oceans.
- **Sanctuary Advisory Councils have been established** at 12 sites, involving more than 220 community members plus 140 alternates in providing management advice to NOAA.
- **NMSP is improving its interpretive techniques** for communicating its message to the public and using “telepresence,” an innovative technology, to share the underwater experience with others.
- **The Dry Tortugas Reserve was designated** as a part of the Florida Keys National Marine Sanctuary, increasing the amount of area under sanctuary protection by 90 square nautical miles.
- **NMSP is evolving a cross-site program integration process** in science, education, marine archaeology, and management plan development.

# National Marine Sanctuary Program

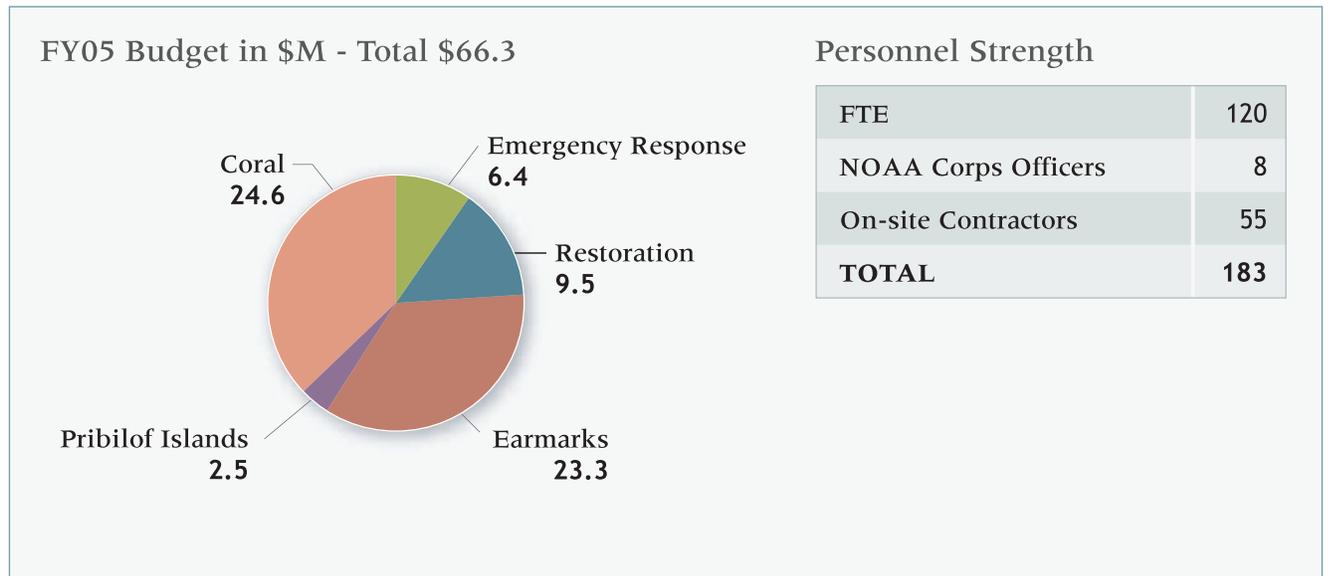


- National Marine Sanctuaries, *designated*
- *undergoing designation process*

# Office of Response and Restoration

David Kennedy, Director  
 CAPT Ken Barton, Deputy Director

## Budget and Total Personnel Strength



## Organization

**Hazardous Materials Response Division**  
 Bill Conner, Chief

**Coastal Protection and Restoration Division**  
 Alyce Fritz, Chief

**Damage Assessment Center**  
 Pat Montanio, Chief

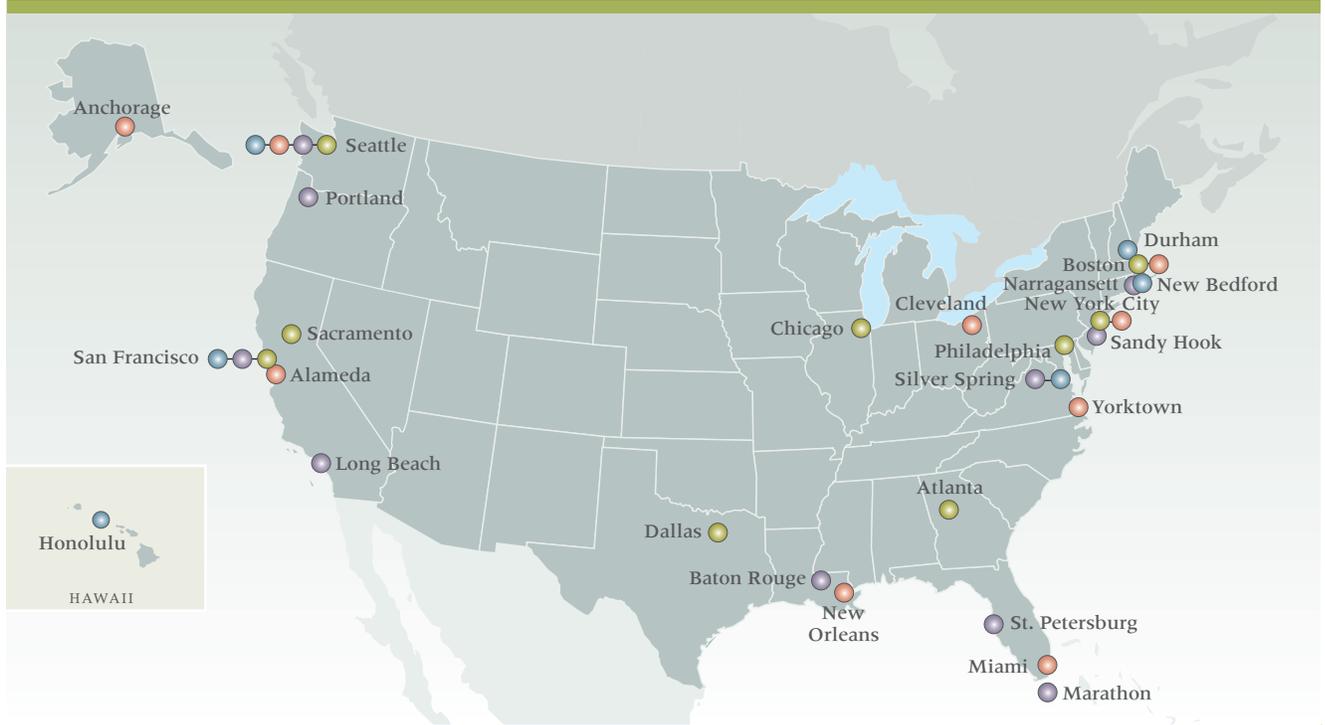
**Coral Reef Conservation Program**  
 Roger Griffis, Coordinator

**Pribilof Restoration Program**  
 John Lindsay, Manager

## Office Responsibilities and Highlights

- **OR&R responds to more than 100 coastal oil** and hazardous materials emergencies each year.
- **OR&R provides cleanup and restoration** solutions at 225 waste sites each year.
- **OR&R has collected over \$300 million from polluters** since 1990 to restore coastal resources injured by oil or hazardous materials.
- **OR&R conducts more than 30 training sessions** and workshops each year, and produces more than 25 readily available tools and technical guidance products.
- **OR&R leads NOAA's multi-million dollar efforts** under the Coral Reef Conservation Act, the U.S. National Action Plan to Conserve Coral Reefs, and the U.S. Coral Reef Task Force.
- **OR&R has cleaned up 87%** of the NOAA-owned sites on the Pribilof Islands.

# Office of Response and Restoration



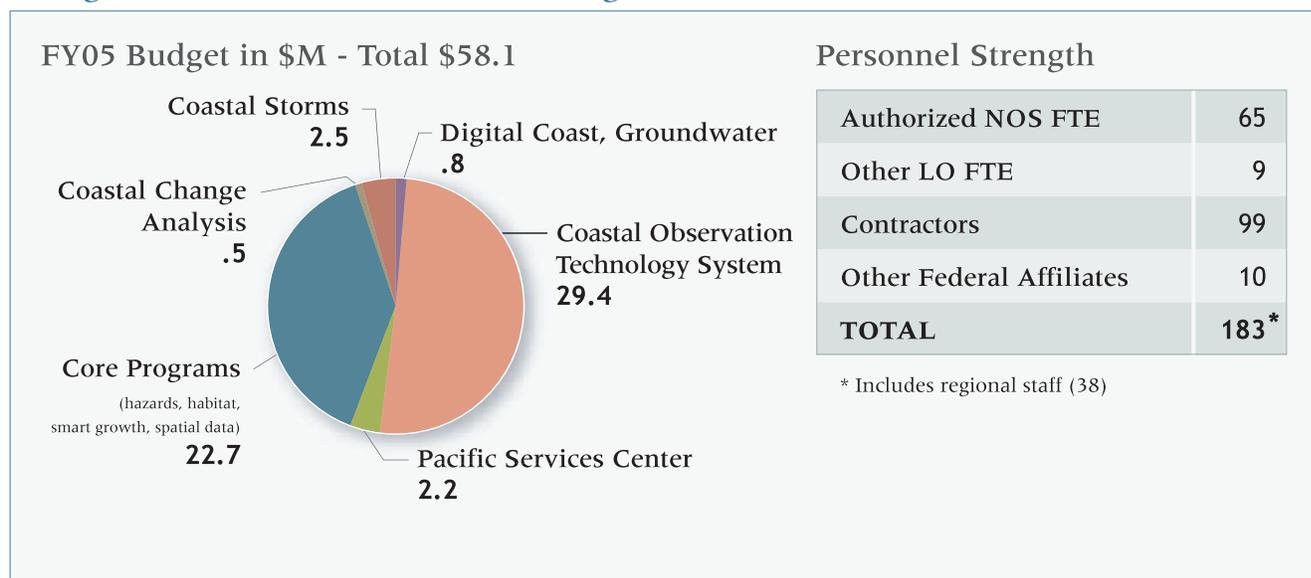
- Coastal Protection and Restoration Division
- Damage Assessment Center
- Hazardous Materials Response Division
- OR&R Headquarters Staff

# NOAA Coastal Services Center

Margaret Davidson, Director

Jeff Payne, Deputy Director

## Budget and Total Personnel Strength



## Organization

### Coastal Management Service Branch

Paul Scholz, Chief

### Coastal Information Services Branch

Anne Hale Miglarese, Chief

Nicholas Schmidt, Program Manager

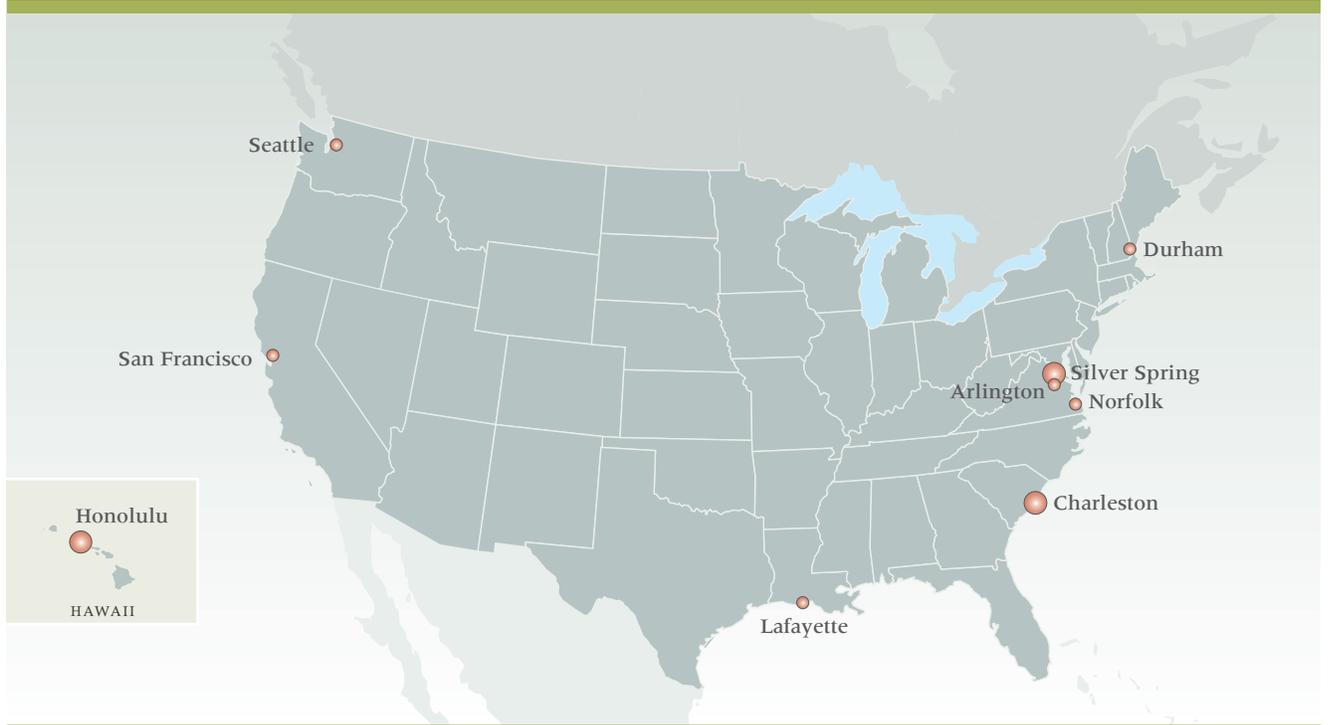
### Resource Management Services Branch

Beth McCandless, Chief

## Center Responsibilities and Highlights

- **CSC helps coastal managers** resolve specific natural resource issues by linking people, information, and technology.
- **CSC identifies needs of the coastal management community** in the areas of habitat, hazards, smart coastal growth, ocean observing systems, and coastal national spatial data infrastructure through customer surveys.
- **CSC produces over 100 products** per year to support state coastal programs.
- **CSC emphasizes training, geospatial data and information development, applications of remote sensing, and geographic information systems.**
- **CSC standardizes and expands the use of ocean data** through the Coastal Observation Technology System (COTS).
- **CSC organizes the Coastal Zone and GeoTools conferences**, two of the largest and most successful conferences for state coastal programs.

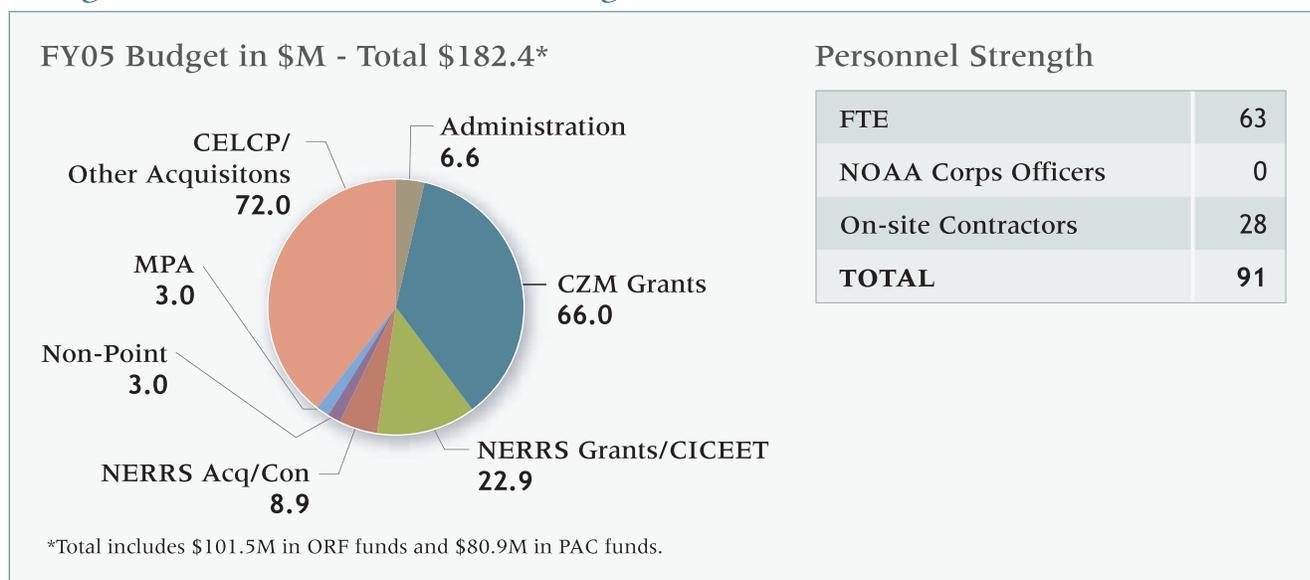
# NOAA Coastal Services Center



# Office of Ocean and Coastal Resource Management

Eldon Hout, Director  
 Doug Brown, Deputy Director

## Budget and Total Personnel Strength



## Organization

### Coastal Programs Division

John King, Chief

### Estuarine Reserves Division

Laurie McGilvray, Chief

### National Policy and Evaluation Division

Ralph Cantral, Chief

### Business Management Division

Barbara MacNeill, Chief

### Marine Protected Areas Center

Joe Uravitch, Center Director

## Office Responsibilities and Highlights

- **OCRM manages the nation's Coastal Zone Management Program** with participation from 34 states.
- **OCRM manages the National Estuarine Research Reserve System** of 26 special areas set aside for conservation, research, and education.
- **OCRM is implementing a National Coastal Management Performance Measurement System.**
- **The National MPA Center**, part of OCRM, coordinates all NOAA MPA activities.
- **OCRM is working with Illinois** on development of their Coastal Management Program.

# Office of Ocean and Coastal Resource Management



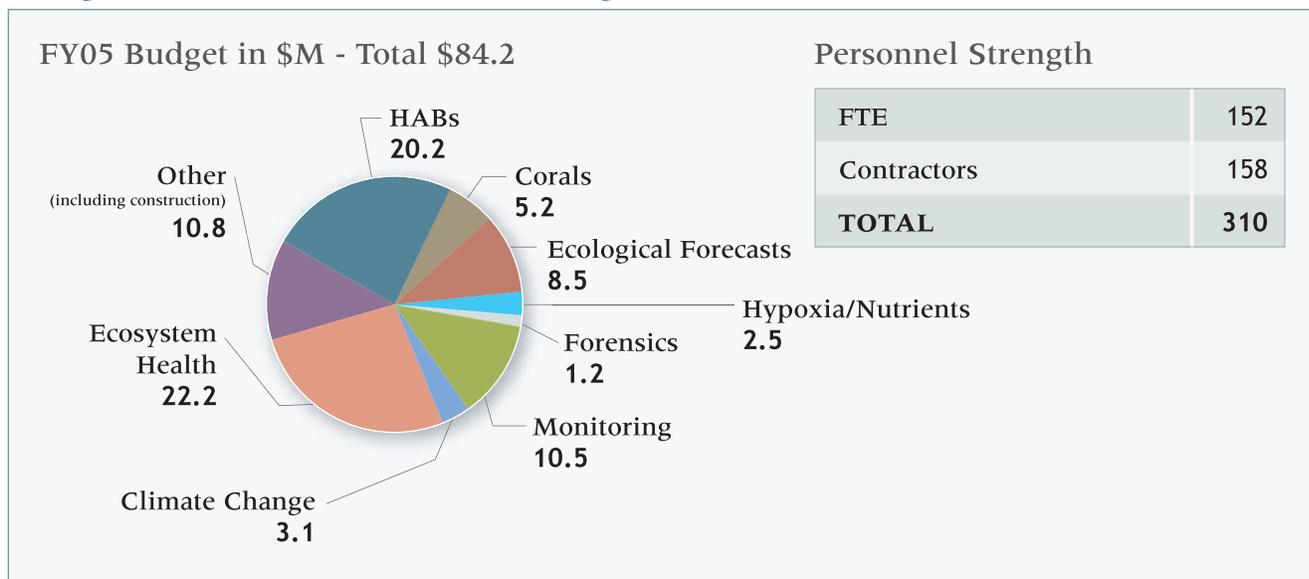
- Coastal Zone Management Program, *federally approved*
- program under development*
- Estuarine Research Reserves, *designated*
- proposed*

# National Centers for Coastal Ocean Science

Gary Matlock, Director

Jean Snider, Deputy Director

## Budget and Total Personnel Strength



## Organization

### Center for Coastal Monitoring Assessment

Russell Callendar, Director

### Center for Sponsored Coastal Ocean Research

Rob Magnien, Director

### Center for Coastal Fisheries and Habitat Research

David Johnson, Director

### Center for Coastal Environmental Health and Biomolecular Research

Geoffrey Scott, Acting Director

### Hollings Marine Laboratory

Fred Holland, Director

## Centers' Responsibilities and Highlights

NCCOS currently conducts or supports more than 250 research projects that provide scientific information and tools to help coastal managers make better decisions. These include:

- **Development** of ecological forecasts;
- **Determinations** of the environmental health of U.S. coastal ecosystems;
- **Prediction, assessment, and understanding** of harmful algal blooms;
- **Assessment and characterization** of coral reefs throughout the U.S. and its territories;
- **Assessments and predictions** of hypoxia and nutrient over-enrichment in estuaries; and
- **Determinations** of the potential effects of climate change on marine resources.

# National Centers for Coastal Ocean Science



- Science Centers
- Marine Laboratories

# Management and Budget Office

**Mitchell Luxenberg**, Acting Chief Financial Officer

**Peter Gibson**, Acting Deputy CFO

## Total Personnel Strength

FTE	86
NOAA Corps Officers	0
On-site Contractors	32
<b>TOTAL</b>	<b>118</b>

## Organization

### **Resources Management Division**

Marie Travis, Acting Chief

### **Information Management Division**

Hugh Johnson, Chief and NOS CIO

### **Policy, Planning, and Analysis Division**

Glenn Boledovich, Acting Chief

### **Communications and Education Division**

Tom Cox, Chief

### **Special Projects**

Dan Farrow, Chief

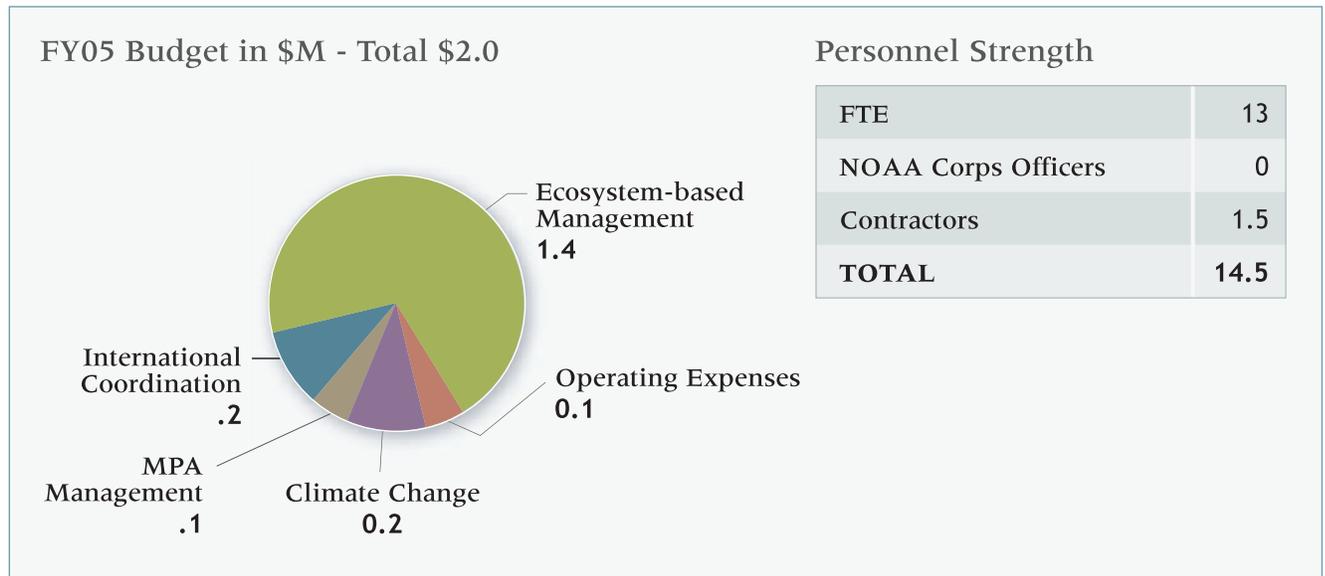
## Office Responsibilities and Highlights (by division)

- **The Resources Management Division (RMD)** is the focal point for managing and coordinating all financial activities such as budgeting, procurement, accounting, resource allocation, and all administrative services including office space, safety, security, environmental compliance, building and property management, travel, and transportation. RMD recently implemented major budgeting improvements throughout NOS program and staff offices.
- **The Information Management Division (IMD)** provides enterprise-wide information technology (IT) support to NOS. The IMD chief serves as NOS Chief Information Officer with oversight on IT purchasing, security, planning, and policy. IMD's IT Security Program has guided all NOS program offices to certify that all NOS IT systems meet rigorous federal security requirements.
- **The Policy, Planning, and Analysis Division (PPAD)** is responsible for budgeting, appropriations, congressional relations, inter- and intra-agency coordination, strategic planning, program performance, agreements, Federal Activities Inventory Reform Act reports, Freedom of Information requests, and *Federal Register* notices. The division recently implemented an intranet Web site (<https://inside.nos.noaa.gov/nosleg/>) to track information on legislation and other Congressional activities relevant to NOS missions.
- **The Communications and Education Division (CED)** promotes NOS scientific, management, and technical to a wide variety of audiences through publications, exhibits, multimedia products, and outreach activities, and produces educational materials on topics related to NOS science and technology. The division recently produced a Discovery Kit on estuaries and a Discovery Story on oil spills, available online via the popular NOS Discovery Center (<http://oceanservice.noaa.gov/education>).
- **Special Projects (SP)** provides NOS and NOAA-wide support for project planning and design, database and Web application development, geographical information systems, socioeconomic and coastal resource analysis and assessment, and creating NOS and NOAA Web sites. A recent product is *Population Trends Along the Coastal United States: 1980-2008*, a report that examines population trends and projections in nearly 700 coastal counties and 139 major estuarine watersheds.

# Staff Office for International Programs

Clement Lewsey, Acting Director

## Budget and Total Personnel Strength

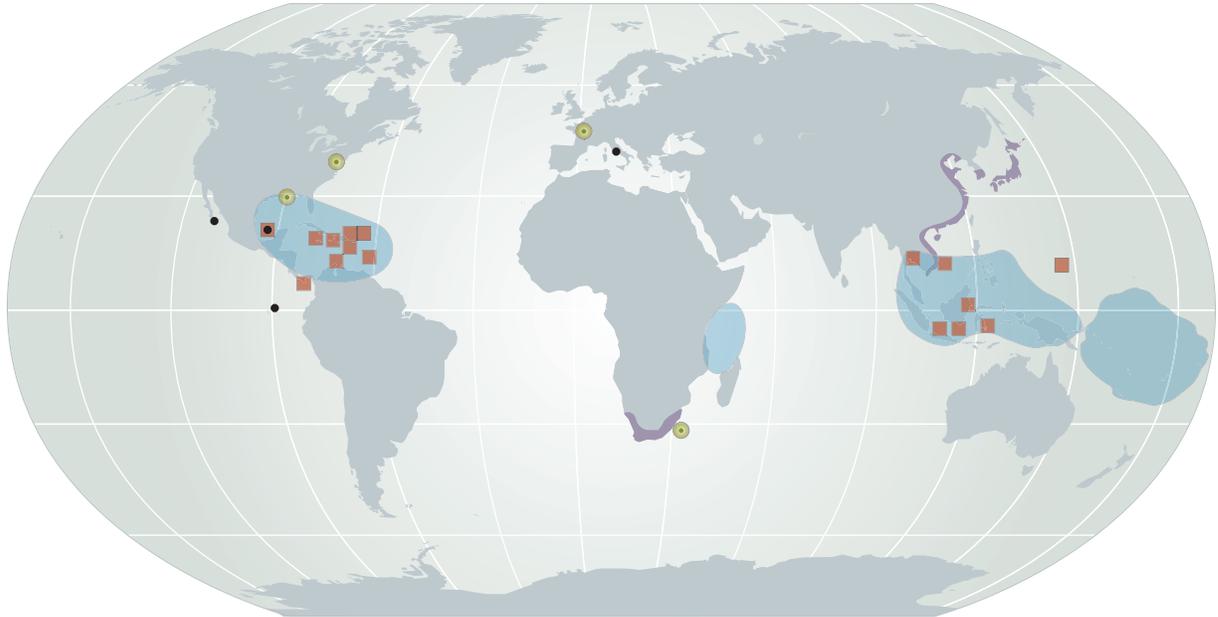


## Office Responsibilities and Highlights

- **IPO is providing technical assistance** to nations in the Wider Caribbean region to implement the UN Environment Programme's Global Program of Action for building capacity to address land-based sources of pollution.
- **IPO is working with China, Vietnam, Korea, and South Africa** to promote and build capacity for ecosystem-based management and coastal management programs.
- **IPO promotes local conservation efforts** globally through the NOAA Coral Reef Conservation Grant Program, which supported 16 projects worldwide in FY2004.
- **IPO is working with the Secretariat of the Caribbean Community (CARICOM)** to promote climate change adaptation strategies in the Wider Caribbean.
- **IPO is leading a global training program** to build capacity of coastal managers to conduct socioeconomic monitoring assessments in coastal communities.
- **IPO will host an international workshop** to engage 60 international and regional organizations and NGOs in development of marine protected area (MPA) networks globally.
- **IPO is translating the MPA Evaluation Guidebook** into French, Spanish, and Italian to expand its MPA Management Effectiveness Program, and is working with three international MPAs to incorporate management evaluation programs within their management plans.

# Staff Office for International Projects

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- Regional Initiatives
  - Bilateral Programs
  - International Coral Grant Sites
  - Major Conferences
  - Management Effectiveness Implementation Sites